denver apple pi Seed

Volume 6 No. 6 JUNE 84

NEWSLETTER OF THE DENVER APPLE PI COMPUTER USERS' CLUB

HIGH ORDER BITS

The Apple Pi Officers for 1984-85 would like to invite your ideas, suggestions and your help to make Apple Pi the computer club you want. If you would like to get more involved please feel free to volunteer for one or the offices not yet filled or become an assistant to one of the officere.

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KEEP THE CARDS AND LETTERS COMING!

denver apple pi Seed

APPLE PI
P.O. BOX 17467
DENVER, COLORADO 80217

Watch for an all new SEED in July

GENERAL MEETING ··· 7TH

Core Meet 10TH

BOARD MEETING ··· 13TH

SEED EDITOR
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$35.00 . . . . . ½ Page
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MEMBERSHIP INFORMATION
$10 APPLICATION FEE AND $18 PER YEAR DUES

APPLE PI is an Apple Computer Users Group - not affiliated with Apple Computer, Inc. - that provides many member benefits, some of which are:

MONTHLY MEETINGS-

On the first Thursday of each month at 7:00 p.m. APPLE PI holds its general meeting at the Greene Center, Colorado School of Mines Campus, Golden, Colorado. This meeting is a combination of an informational meeting, new product announcements, and a short business meeting. The members are given an opportunity to buy computer supplies a little above cost. Software products are given away as door prizes.

On the Sunday following the general meeting there is an informal meet which is usually held at the home of a member, the location of which is announced in the newsletter and at the general meeting. This meeting is from 10:00 a.m. until 3:00 p.m. and provides a more informal environment to seek or give advice to fellow members and get copies of programs from the APPLE PI Library. Both of these meetings are open to the general public but only members have access to products that are sold.

PROGRAM LIBRARY-

APPLE PI currently has a library of 8,000 programs. All current disks are in 16 sector (3.3, Pascal, CP/M) format and are available to any member. APPLE PI Members can obtain copies from the library:

1) By coming to the monthly informal meeting (swap meet);
2) By written request to the club librarian (at any meeting or by mail);
3) By electronic mail on APPLE PI's bulletin board system:

When requesting copies, please include the following information:

a) Your Name, Address, and Phone number;
b) Disk Category and Volume Number;
c) Blank Diskette(s) or request to utilize a new disk (member will be charged $2.50 for the new disk);
d) Copy fee ($1.00 per diskette side unless you donate a program you have written at the same time and fill out a Progam Submission Form). Only complete sides of disks will be copied.
e) Instructions on how the disks are to be returned, i.e., at the next meeting, by mail, etc. (IF RETURN IS TO BE BY MAIL PLEASE BE SURE TO INCLUDE A STAMPED, SELF-ADDRESSED FLOPPY DISK MAILER, AND $2.50 TO COVER SHIPPING COSTS).

DISK OF THE MONTH-

Each month a collection of some of the best programs donated to APPLE PI during the preceding month are made available. The DOM can be purchased at any group meeting or by mail.

DUES-

Current membership dues are $18.00 per year, with a one-time application fee of $10.00. Checks should be made payable to APPLE PI.

Get ProDOS Ticking...

by Randall Ansley

If you are using ProDOS and you have a Thunderclock (clock card) installed, ProDOS will read the date and time, and use them in any number of routines. The most common use of date and time is in the catalog. When you save a file ProDOS will place the date and time of the first save and the most recent file update in the catalog display for you.

```
/PRODOS

NAME           TYPE  BLOCKS  MODIFIED         CREATED

*PRODOS        SYS      31   1-JAN-84  9:15  <NO DATE>
*BASIC.SYSTEM  SYS      21   15-NOV-84 0:00  <NO DATE>
 STARTUP       BAS       7   15-APR-84 20:15  3-MAR-84  9:07
 LETTER        TXT      13   17-APR-84 9:45  <NO DATE>

BLOCKS FREE  208     BLOCKS USED:  76     TOTAL BLOCKS:  280
```

(sample catalog with "CAT" command)

You can make use or other clock cards but you will need to write a special routine to read your card and place the date and time in the proper locations. The ProDOS Machine Language Interface (MLI) use the following steps:

1. If the date or time field in the call's parameter list is a nonzero, then the ProDOS MLI will use the stored values. If 00 is found then the MLI will call location $BF06. This location may contain a JMP to a clock / calendar routine. The defalt is to a known RTS instruction (this routine may or may not update the system date and time).

2. After the call to $BF06 the date and time locations should be nonzero and the MLI will use these values. If not the MLI will use the values that are already in the file's modified field. If you are making a new file the value will be zero.

If you have a Thunderclock, ProDOS will read the date and time automatically and a JMP to the routines starting address will be stored in $BF06. To use another card you will need a routine that reads your clock card then places the information in bytes $BF90 through $BF93. Use this format:

```
                $BF91                $BF90
           +7+6+5+4+3+2+1+0+  +7+6+5+4+3+2+1+0+
Date:      |    year     |  month  |    day    |
           +-+-+-+-+-+-+-+-+  +-+-+-+-+-+-+-+-+

                $BF93                $BF02
           +7+6+5+4+3+2+1+0+  +7+6+5+4+3+2+1+0+
Time:      |     hour    |  |    minute    |
           +-+-+-+-+-+-+-+-+  +-+-+-+-+-+-+-+-+
```

Your routine must begin with a CLD instruction and must end with a RTS. Don't forget to put your starting address in $BF06. Apple recommend that you put your routine in page three ($300-$3CF).

The following program works with the MBI clock card installed in slot 5. If you have a MBI card in another slot change line 4. If you are using a card other than MBI see your cards reference manual for a routine for your card. Load this program with your STARTUP program so you will be off and running without loading by hand. I would like to thank Bob Garth for all his help with this program. If any of you come across any routines for other clock cards please send them to me and I will see that the club library gets them. This program will be on the June DOM.

ProDOS & MBI clock card

```
 1          LST  OFF
 2          ORG  $0300
 3
 4 SLOT10   =    $50
 5 PAC      =    $C081+SLOT10
 6 PA       =    $C080+SLOT10
 7 PBC      =    $C083+SLOT10
 8 PB       =    $C082+SLOT10
 9
10 HOLD     =    $01
11 READ     =    $02
12 WRITE    =    $03
13 SEC30    =    $04
14
15
16 YEAR     =    $BFP1
17 MON      =    $BF90
18 HOUR     =    $BF93
19 MIN      =    $BF92
20
21
22          LDA  #/RTIME
23          STA  $BF08
24          LDA  #RTIME
25          STA  $BF07
26 RTIME
27          CLD
28          LDA  #$00
29          STA  PAC
30          STA  PBC
31          LDA  #$80
32          STA  PA
33          LDA  #$FF
34          STA  PB
35          LDA  #$04
36          STA  PAC
37          STA  PBC
38          LDA  HOLD
39          STA  PB
40          LDA  #$04
41          JSR  WAIT
42          LDX  #$0C
43 LOOP     TXA
44          ASL
45          ASL
46          ASL
47          ASL
48          ORA  #READ+HOLD
49          STA  PB
50          LDA  PA
51          AND  #$0F
52          STA  TIME,X
53          DEX
54          BPL  LOOP
55          LDA  #$00
56          STA  PB
57          LDA  TIME+5
58          AND  #$03
59          STA  TIME+5
60          LDY  #$0C
61          JSR  CONVERT
62          STA  YEAR
63          LDA  #$0A
64          JSR  CONVERT
65          STA  MON
66          LDY  #$08
67          JSR  CONVERT
68          STA  DAY
69          LDY  #$05
70          JSR  CONVERT
71          STA  HOUR
72          LDY  #$03
73          JSR  CONVERT
74          STA  MIN
75          LDA  MON
76          ASL
77          ASL
78          ASL
79          ASL
80          ASL
81          STA  MON
82          LDA  YEAR
83          ROL
84          STA  YEAR
85          LDA  DAY
86          AND  #%00011111
87          ORA  MON
88          STA  MON
89          RTS
90
91 WAIT     SEC
92 LP0      PHA
93 LP1      SBC  #$01
94          BNE  LP1
95          PLA
96          SBC  #$01
97          BNE  LP0
98          RTS
99
100 CONVERT
101         LDA  TIME,Y
102         TAX
103         LDA  TBL,X
104         DEY
105         CLC
106         ADC  TIME,Y
107         RTS
108
109 TBL     DFB  0,10,20,30,
                 40,50,60,70,80,90
110 DAY     DFB  0
111
112 TIME    DS   $D
```


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JOHNNY APPLESEED

Dear John,

I recently purchased a modem, and I have called some of the BBS'S in Denver. So far, I haven't found anything worth my time or the money I spent on my modem. Is there any service out there that I might find useful??

Tired of Modem

Dear Tired of Modem,

You are only one of many people who don't use their modem to the fullest extent possible. Actually, there are many services available to the modem user. These services provide the user with information about a variety of topics ranging from the latest gold prices to patent rights.

Of course, these services are not free. Usually, you are charges for the actual time you use the system. Normally, rates range from $5/hour to $15/hour.

The most practical reason for subscribing to one of these services is to do research. In today's society, I don't think any student should be without a subscription to a service such as brs:afterdark. For every hour you use a service such as brs:afterdark, you are saving yourself 8 hours at a normal library.

John

Dear John,

With the introduction of the new //c computer from apple, there has been a lot of talk about my //e becoming obsolete. Is there any truth to this???

Worried about new products

Dear Worried about new products,

You have absolutely no reason to worry that your //e is going to become obsolete. You must remember that the //c is designed to further the // family of Apples. Although I'm sure there will be some software that will work on the //c and not the //e, the majority of software will continue to work on both computers.

John

Thank you!

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6 303-986-9655

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5 303-426-5800

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4 303-420-1877

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3 303-988-9140

LIBRARIAN'S REPORT

First of all, I want to thank all of the super Denver Apple Pi members who took the time to submit entries to the M.V.P. contest. They are the people that make this club tick.

In the past few months, I have heard an incredible amount of complaints about our DOMs and how we document them. I really feel these complaints don't have a firm base to grow from. Our DOMs generally consist of member contributions, and don't come with documentation. Therefore, because of the time involved, we simply cannot publish documentation on every program on the DOM. We do publish documentation whenever available.

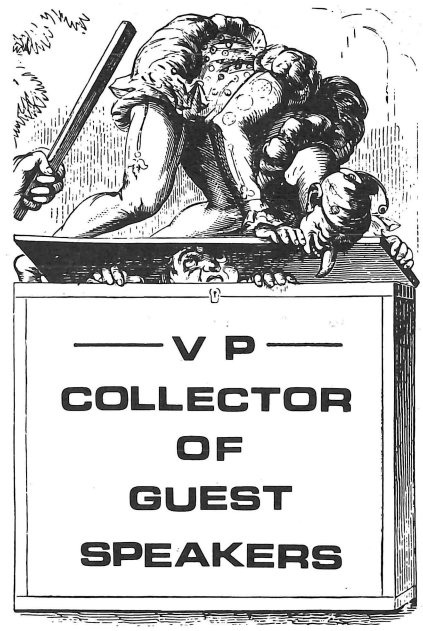
IF YOU don't like the way our DOMs currently are, YOU CAN do something about it: Contribute any program you have written. We accept almost ANYTHING. I think it would be nice to see everyone in the club contribute one program. That would be enough for a year of SUPER DOMs!!!!

Information on the June DOM can be found elsewhere in this SEED under STAT:DOM.

Other library news: We no longer have monthly CP/M or Pascal DOMs. We will continue to maintain a CP/M and Pascal section of the library, and we may have occasional CP/M and Pascal SPECIAL EDITION disks.

Finally, we need LIBRARIAN ASSISTANTS! If you would like to help the librarian do "odd jobs", please call me at home.

--> Trent Hein, Librarian <--



June -- company Quark, makers of Word Juggler, a hard disk for the IIc, etc.
July -- theme Dow Jones, a Dow Jones demo.
August -- theme telecommunications, Steve Martin will demo our BBS and give a demo on uploading, downloading, etc. Any other people he wants may also be part of this presentation.

For September thru December, there are 4 months of speakers that are not
planned yet. I will try for the following;

company Rana -- IBM compatible drives.
company Epson -- new LQ-1500 printer.
company Apple -- Woz? If not, the new plotter, Scribe printer, and other new stuff not previously demoed.
company Microsoft -- //e softcard and new Mac stuff.

I may try for a theme (printers) instead of just Epson. For example:

Epson -- new LQ-1500 and FX80 demo,
Brother printer company -- letter quality
printers.

Andre' Van Meulebrouck

SECRETARY'S REPORT

(May Meeting)

The Meeting was convened by Dave Eisler at 7:00 pm, May 3, 1984, at the Greene Center, Colorado School of Mines.

He announced that the May SWAP Meet would be held at the home of Pat Lines on 1440 Franklin St.

Special awards (in the form of plaques) were presented to the following members in recognition of services rendered to the club during the past year:

Rich Waite	Sales Assistant
Les Shaw	Directory
Ron Stock	Legal advice
John Soma	Legal advice
Bob & Mary Ann Vitry	Store Representatives
Trudi Nelson	Assist Secretary & Bylaws
Kathleen Turner	Bylaw draft
Jeff Beehler	DOM assistance
Bob Gaiser	Library Assistant
Dan Bentz	Library Assistant
Jim Lyons	Library Assistant
Andre van Meulebrouck	SEED contributions

Ballots were called for and given to Tom Angelos, Chairman of the Nominating Committee, to be counted. The results of the election were as follows:

President:	Bob Hein
Vice President:	A. Van Meulebrock
Secretary:	Liane Nusse
Treasurer:	Will Smith
Directors at Large:	Randy Ansley (3 yr. term)
	Trent Hein (2 yr. term)
	Bill Hatchett (1 yr. term)

Other announcements included:

-- For the June meeting a panel discussion has been tentatively scheduled, and for July Lanny Mowry will present a program on Dow Jones programs.

-- "Greeley Comment", a new BBS, is now up and running. Its number is 351-8861.

Trent Hein demonstrated the Disk of the Month which featured the winning entries in the "Most Valuable Program" contest: "Program Padlock" by Randy Ansley, "Wind Chill" by Ron Heath, and Word Processor" by John Nelson.

The door prizes this month were contributed by Thorsen Rocky Mountain Micro, distributors for APPLE COMPUTER, who also presented the program. The winners and their prizes were as follows:

Roger Butler	APPLE IIc cup
David Simon	Pen
John C. Haworth	"APPLE Forever" T-shirt
Daryll Johnson	"APPLE Forever" T-shirt
George W. Forby	APPLE IIc pin
David Gregg	APPLE IIc pin

They also presented an APPLE II Mouse to Herd Clark, won by him at the February Meeting (prior to its release), when they presented the program on the MACINTOSH and provided the doorprizes at that meeting as well.

The theme of the program was "APPLE II FOREVER" presented by Dick Walker and his staff from Thorson Rocky Mountain Micro. The very interesting multimedia presentation featured the new APPLE IIc portable computer. The program was followed by a question and answer session and an opportunity to examine the products after the meeting.

Our thanks too to ADAMS COMPUTERS, our newest Store Sponsors, for manning the Guest Sales Counter in the hall again this month.

STAT : DOM

For the main body of the June DOM, we have obtained a program called "BUILD A PROGRAM". This program is designed to:

1> Create the shell of a program that a programmer will add his/her coding. This shell will contain standard precoded variables & a date routine, & standard coding for clearing the screen, positioning the cursor, and clearing the displays.

2> Create a subroutine that will generate and maintain an Indexed Sequential File.

There are also some good utilities on the June DOM.

EDUCATION BULLETIN BOARD BY MAUREEN D. BRUCKER

Welcome again to the Education Bulletin Board. This month, we will discuss methods of communication which permit course critique to happen in an open, non-judgemental manner. Without this critical information, 'wonderful' teachers find that either business slacks off as word gets around of problems left untended and uncared about by the insensitive individual behind the 'wonderful' teacher facade.

Few, sincere teachers intentionally fall into such a blatently insensitive category. However, the novice or even the average sometimes adult education can easily fall into the trap by accident and thus end an otherwise promising and lucrative career in non-compulsory education.

A few inexpensive measures can be taken to open the channels of communication. The first is a carefully drawn set of goals for the class.

Second, is a realistic description of the student you are aming to instruct. If your passionate response to computers leaves little quarter for those who are timid in the face of new technology, plan courses for those whose abilities and interests match yours. Patience will save you from the blunder of the class full of dissatisfied students.

Third is the ABSOLUTELY IMPARTIAL AND ANONIMOUS evaluation at the end of the class. This, above all else, must be taken seriously. Your product is yourself and your manner of presenting information. If the product is perceived to be a faulty, you will lose potential students and that means income to the professional freelance educator. The evaluation, is the method of acquiring the necessary information to maintain satisfied customers, playcate the dissatisfied, and gain the information for continued upgrading of the product. Given a truly anonimous vehicle for complaint, which he/she perceives to be taken seriously, an unhappy student will often spare the unsatisfactory class harsh criticism because the teacher can be informed of the unmet needs. Draw up your evaluation to include questions about teaching methods, subject matter, course descripetion, location, classroom layout, times, length of the course, materials, equipment, etc. Those out of your hands can be negotiated with facility brokers ONLY IF YOUR SURVEY WAS DESIGNED IN AN OBJECTIVE AND UNBIASED MANNER WHICH ALLOWS STUDENT ANONOMITY. Questions should be of a multiple choice, excellent to poor [1-5] grading line, or other system which allows the student to mark the paper without handwriting identification. Written comments should be solicited on an optional basis. An optional line for signature should also be included. It is helpful to date and class identify each series of questionaires. Lastly, the questionaire should be handed out during REGULAR classtime. Once it is distributed, leave the classroom for 15-20 minutes to insure privacy. Have an envelope handy if this is planned as a beginning of class exercise.

Few people take advantage of the evaluation opportunity to write falsehood. Those problems which are mentioned most frequently, usually represent very serious problems. Use them as an opportunity to tailor your product to the needs of the public.

Students, on the otherhand, interested in courses from professional free-lance instructors, should look to see evaluation questionaires and results. Since this is your interactive communication method, too, its absence, often suggests a teacher who is not open to change.

(c)1984-SPIN-SPECIAL INFORMATION NETWORK

****

The following classes are being offered in the SOUTH CENTRAL DENVER area on a CONTINUOUS BASIS:

WordStar dBase II
SuperCalc3 Multiplan
Lotus 1-2-3

Please contact Jack McKinley at 733-1277 for further information.

****

Listings on this bulletin board are offered for the information of the reader. Such listing does not in anyway imply an endorsement of these courses by Apple Pi itself, or any of its officers or members in particular.

LAIDBACK WITH (a) FIFTH

disassembled by Mark Champine

(reprinted from NECS NEWSLETTER)

BASIC, FORTRAN, COBOL... these programming languages are well known and (more or less) well loved throughout the computer industry. There are numerous other languages, however, that are less well known, yet still have ardent devotees. In fact, these little-known languages generally have the most fanatic admirers. For those who wish to know more about these obscure languages - and why they remain obscure - I present the following catalog.

* SIMPLE - acronym for Sheer Idiot's Monopurpose Programming Linguistic Environment. This language, developed at the Hanover College for Technological Misfits, was designed to make it impossible to write code with errors in it. SIMPLE's statements are, therefore, confined to BEGIN, END, and STOP. No matter how you arrange the statements, you can't make a syntax error.

Programs written in SIMPLE do nothing useful. Thus, they achieve the results of programs written in other languages without the tedious, frustrating process of testing and debugging.

* SLOBOL - best known for the speed of its compiler. Although many compilers allow you to take a coffee break while they compile, SLOBOL compilers allow you to travel to Bolivia to pick the coffee. Forty-three programmers are known to have died of boredom sitting at their terminals while waiting for a SLOBOL program to compile.

* VALGOL - From its modest beginnings in Southern California's San Fernando Valley, VALGOL is enjoying a dramatic surge of popularity across the industry.

VALGOL commands include REALLY, LIKE, WELL, and Y*KNOW. Variables are assigned with the =LIKE and =TOTALLY operators. Other operators include the "California Booleans" FERSURE and NOWAY. Repetitions are handled in FOR-SURE loops. Here is a sample VALGOL program:

```
14   LIKE Y*KNOW (I MEAN) START
%%   IF PI A =LIKE BITCHEN AND
Ø1   B =LIKE TUBULAR AND
9    C =LIKE GRODY^MAX
4K   (FERSURE)^2
18   THEN
4i   FOR I =LIKE 1 TO OH MAYBE 10
86   DO WAY + (DITTY^2)
9    BARF(I) =TOTALLY GROSS(OUT)
-17  SURE
1F   LIKE BAG THIS PROGRAM
?    REALLY
$$   LIKE TOTALLY (Y*KNOW)
```

VALGOL is known for its unfriendly error messages. For example, when the user make a syntax error, the interpreter displays GAG ME WITH A SPOON!

* LAIDBACK - historically related but prior to VALGOL, LAIDBACK was developed at the (now defunct) Marin County Center for T'ai Chi Mellowness, and Computer Programming, an alternative to the more intense atmosphere in nearby Silicon Valley.

The center was ideal for programmers who liked to soak in hot tubs while they worked. Unfortunately, few programmers

could survive there for long, since the center outlawed pizza and RC COLA in favor of bean curd and Perrier.

Many mourn the demise of LAIDBACK because of its reputation as a gentle and nonthreatening language. For example, LAIDBACK responded to syntax errors with the message, SORRY MAN, I CAN'T DEAL WITH THAT.

* SARTRE - named after the late existential philosopher, SARTRE is an extremely unstructured language. Statements in SARTRE have no purpose; they just are. Thus, SARTRE programs are left to define their own functions. SARTRE programmers tend to be depressed and are no fun at parties.

* FIFTH - is a precision mathematical language wherein the data types refer to quantity. Data types range from CC, OUNCE, SHOT, and JIGGER to FIFTH (hence the name of the language), LITER, MAGNUM, and BLOTTO. Commands refer to ingredients such as CHABLIS, CHARDONNAY, CABERNET, GIN, VERMOUTH, VODKA, and WHATEVERSAROUND.

The many versions of the FIFTH language reflect the sophistication and financial status of its users. Commands in the ELITE dialect include VSOP and LAFITE, while commands in the GUTTER dialect include HOOTCH, RIPPLE, and SNEAKYPETE. The latter is a favorite of frustrated FORTH programmers who end up using this language.

* C- - This language was named for the grade received by its creator when he submitted it as a class project. C- is best described as a "low-level" programming language. In fact, the language generally requires more C- statements than machine code statements to execute a given task. In this respect it is very similar to COBOL.

* LITHP - an otherwithe unremarkable language dithtinguithhed by the abthence of an "S" in itth character thet. Utherth mutht thubthtitute "TH". LITHP ith thaid to be utheful in procethething lithtth.

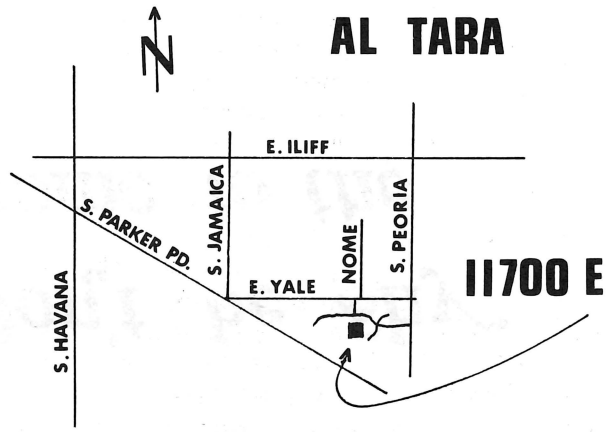
* DOGO - Developed at the Massachusetts Institute for Obedience Training, DOGO heralds a new era of computer-literate pets. DOGO commands include SIT, STAY, HEEL, and ROLL_OVER. An innovative feature of DOGO is "puppy graphics", a small cocker spaniel that occasionally leaves a deposit as he travels across the screen.

TREASURER'S REPORT

Beginning Balance (4/1/84)	$237Ø.57
INCOME	
New Memberships	$ 784.ØØ
Renewal Memberships	648.ØØ
DOM Sales	21Ø.ØØ
Library Copies	47.ØØ
Sales of Supplies	1825.45
Interest Earned	16.21
SEED Advertising	35.ØØ
TOTAL	$ 3556.66
EXPENSES	
Supplies for Resale	$ 23Ø6.5Ø
CSM Room Rental	Ø.ØØ
Librarian Supplies	187.ØØ
Printing Costs	594.ØØ
Postage	225.ØØ
Supplies	87.18
BBS Phone Bill & Repairs	84.84
State Sales Tax (3 Months)	487.54
TOTAL	$ 3972.Ø6

LIABILITIES	
Sales Tax Accrual (3 months)	93.63
TOTAL	$ 93.63
ASSETS	
Supplies for Resale a/o 4/3Ø/84	$5874.92
Cash	3485.4Ø
CSM Room Rental (thru June)	28Ø.ØØ
TOTAL	$964Ø.32

Core Meeting



DISK OF THE MONTH ORDER FORM

This form is for those members who are unable to attend the next meeting of Apple Pi and would like to purchase a DOM via mail. DOMs will still be available at the monthly meeting and swap meet. It is also possible to order past DOMs.

CIRCLE THE APPROPRIATE DOMs THAT YOU ARE ORDERING

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

1980 1981 1982 1983 1984 1985

[ ] DOS 3.3 [ ] Pascal [ ] CP/M

QUANTITY	ITEM	UNIT PRICE	TOTAL
_____	DOMs marked above	$5.00 ea	_____
	Postage and Floppy Mailer	$1.25 ea	1.25
		TOTAL	_____

NAME_____

ADDRESS_____ CITY,ST_____

ZIP_____ PHONE _____

Send form to Apple Pi, P.O. Box 17467, Denver, CO 80217-0467

VOLUME 6 NUMBER 6 JUNE 1984

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